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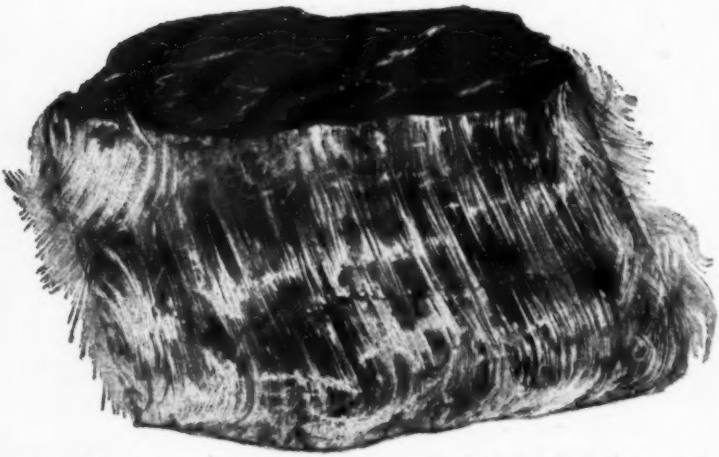

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THE LIFE OF ASBESTOS

By: W. E. Sinclair, M.I.M.M.

Many of the world's industrial minerals are widely distributed in the earth's crust, generously in some places, but somewhat sparsely scattered in others. Asbestos, for example, occurs in abundance in Canada, Russia, Rhodesia, South Africa, Australia and Swaziland, but only sparingly in most other countries.

Widespread distribution does not imply a state of plenteousness, because, in most cases, deposition of the mineral in the rock formation is meager, so that extraction is quite possibly uneconomic. In the case of asbestos, this means a low fibre content of the ore, besides which, the class and quality of the fibre may not command favorable market prices. Asbestos, unlike most other mineral deposits, cannot be regarded as something like a fixed and unchanging picture, but rather, as something of varying and uncertain value, depending on man's capability of extraction and using the fibres contained profitably.

It is these and other commercial factors that give rise to the question of the future "life" of asbestos in industry, especially in view of the steadily increasing demand for the mineral in the manufacturing sphere.

As far as it is possible to foresee the world's latent resources of the mineral in the form of developed reserves and unproved occurrences, it is estimated that the probable total resources of all varieties of asbestos are about 123,-500,000 tons. This total, at the 1952-1956 rate of consumption indicates a "life" of about seventy years. During this period annual consumption was approximately one and three-quarter million tons.

If the estimated resources can be accepted as roughly correct and the demand for industrial purposes maintained, there will be little to worry about providing nothing untoward happens to upset these prognostications in the next seventy years.

In actual fact, however, there are signs of definite changes already. First, world production has already reached well over the two-million ton mark and consump-

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tion can be taken as about the same. This reflects the advance in technology in the past ten years, resulting in a marked change in the industrial world that has definitely altered the basic value of asbestos with a natural increasing consumption of all varieties. This, quite obviously, may change the whole picture in the near future. The changing scene is clearly illustrated in the following brief schedule of the growing increase in output in the past ten years of all varieties of asbestos in the principal producing countries of the world.

Increase in Output in the Past Ten Years

Total Output in Tons (approximately)

Country	*From*	*To*
Canada	300,000	1,000,000
South Africa	50,000	140,000
Southern Rhodesia	55,000	125,000
Swaziland	26,000	32,000
Australia	1,800	16,000

It is interesting to note that the phenominal increase in output in Australia has occurred only in the past year or two and is accounted for by the opening up and exploitation of the crocidolite deposits in the Hammersley Range.

The above record is characteristic of even the smallest producing fields in which, in many countries, the fabrication of asbestos products has been undertaken for the first time in recent years.

The spectacular increase in world production in the past ten years indicates an increase in the use of asbestos in industry of nearly 60% in the same period. This means, not only greater utilization of the mineral in the form of wholly asbestos products, but an increase in its use in other industries, such as, engineering, building, construction and the automobile trade, plus many other manufacturing spheres.

In general, it is natural that this position has created certain stabilization in the industry and a pressing demand for the mineral. The important point to the producer is the fact that this, in turn, has established new values and

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conditions that have changed marginal and even former unpayable deposits into major productive undertakings of economic importance.

The whole position gives promise therefore, that our estimated world resources may well prove to be payable propositions, since even the most "hungry" looking mineral deposit may assume a different economic value if the demand is firm and market prices are high enough and stable.

As it happens, it is just this bright outlook for the future that rather upsets the estimated "life", since a marked increase in demand will naturally spur on production and this, at the same time, will lead to the steady depletion of resources and a consequent shortening of the calculated "life" span. However, in the natural course of events, the law of supply and demand, in most similar cases, tends to find a balance, especially if higher and stable market prices are justified by a steady demand. Indeed, it requires just this boost in industry to stimulate serious interest in the exploration and development of the many areas presently considered too poor to justify costly investigation.

This outlook should follow automatically, but there are other facets to the question. Amongst these are the vagaries of the different types of asbestos and the diverse natural characteristics of these. The length and strength of asbestos fibres and their many other physical and chemical properties, such as color and texture, all have their specialized utility values. This, not only has a bearing on manufacturing requirements but, because of price fluctuations (according to quality and grade) these factors may directly affect the payability of some deposits. Since it is unlikely to find two deposits exactly alike in fibre content, characteristics and other qualities, the problem is full of enigmas specially designed to exercise the ingenuity of those aiming to solve it.

One example of such a paradoxical position has occurred in the Transvaal. This is the cessation of operations at the Stolzberg Mine, one of the relatively important chrysotile producers. The reason for the closure is that the lower grades of fibre available cannot be produced eco-

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nomically at present price levels. By contrast, other chrysotile producers in the same area, Msauli Asbestos and Barberton Chrysotile Asbestos continue to produce economically.

Another aspect of the problem of uncertain values in asbestos ore-bodies is evident in certain sections of the crocidolite (Blue) asbestos field in the Cape and in the crocidolite and amosite formations in the Transvaal. In both cases, the long strike of ferruginous banded ironstones, (the asbestos bearing formation) was always known to be only erratically mineral-bearing, but many of those parts that appeared to be payable have been found to be patchy. Deep development on many sections has disclosed erratic fibre deposition laterally with, in many instances, either complete pinching or hardening of the fibre in the "fresh zone". Several of the older mines are finding similar conditions in their deep workings.

Sporadic mineralization of normal asbestos-bearing rock formations is not an unusual feature. It is often found in anthophyllite occurrences and is also common in some chrysotile formations, and more particularly in serpentinized sedimentary deposits. A clear example of this condition is the well-known Arizona deposits in the U.S.A. A great deal of exploratory work has been carried out on these fields and much more will be done to locate further new occurrences and possible extensions of the known ore-bodies. The superior quality of the non-ferrous chrysotile recovered from this region stimulates a continuous quest, especially as the States are in dire need of increased domestic production. Although this country is the leading world asbestos manufacturing center, domestic production averages under 50,000 tons annually which is barely 5 per cent of her total requirements, consequently, nearly 700,000 tons must be imported to satisfy the demands of her manufacturing industry.

Indeed, this position in the U.S.A. has recently prompted the State to undertake the examination of her domestic occurrences of asbestos-bearing serpentines and particularly those in California. Here, diamond drilling is being undertaken to determine the extent and value of mineralization. This is an exploratory program that might well be

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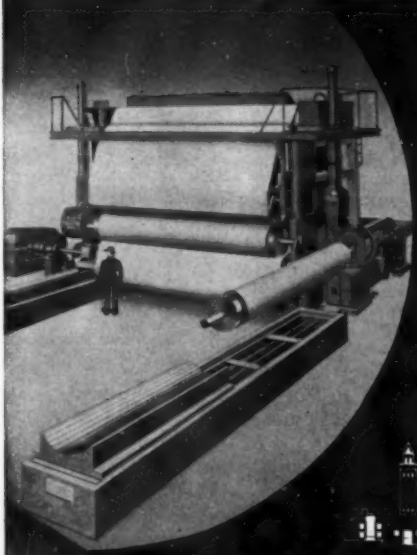

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promoted in South Africa and other countries having a reasonable chance of potential resources.

Included in the U.S.A. programs is a plan to encourage research workers to continue their efforts to produce synthetic asbestos. So far, results in the field have not got beyond the laboratory stage in which short fibres have been produced, none of which, however, has been proved of commercial value.

There remains the other possibility of substitutes that might replace asbestos fibres. Up to now the only alternatives of any value are used to some extent in certain blending processes, but none to replace asbestos entirely.

So long as the valuable properties of asbestos fibres are needed in industry, the production of the raw material must go on and, in order to maintain the necessary reserves, the development of a new potential will be essential to maintain the "life" of the industry.

THE PHILIP CAREY MANUFACTURING COMPANY has recently issued a new six-page brochure listing pertinent data concerning their newest industrial insulation product for temperatures up to 1350°F.

This new multifold brochure on *Carey Calcium Silicate Pipe and Block Insulation* for use in power, chemical, petroleum, petrochemical and manufacturing industries lists heat transmission data, physical and thermal characteristics, standard sizes and recommended thicknesses. All this information is presented in easy-to-read tabular form which engineers, designers and insulation contractors can keep close at hand for ready reference in their Carey Industrial Insulation Manual or standard ring binders.

Production description includes factors concerning insulation efficiency, ease of handling, high impact strength, flame resistance, water resistance, dimensional stability and resiliency. This literature (Form 6472) may be obtained from Carey Industrial Insulation Specialists or by writing to The Philip Carey Manufacturing Company, 320 South Wayne Avenue, Cincinnati 15, Ohio.

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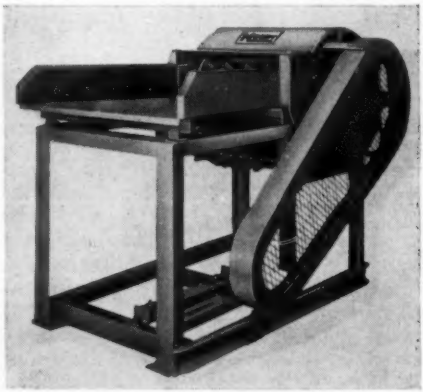

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ASBESTOS TEXTILE INSTITUTE

Annual Meeting

The Annual meeting of the ASBESTOS TEXTILE INSTITUTE for 1960 was held on September 8th and 9th at the Statler Hilton Hotel in New York City. On the first day of these meetings, the several active committees of the association met and reviewed the work and pursuits of the separate groups. The Air Hygiene and Manufacturing Committee met under the Chairmanship of Mr. Ralph Smith, Raybestos-Manhattan, Inc.; The Sales Promotion Committee deliberations were conducted under the direction of the Chairman, Mr. E. A. Schuman, Johns-Manville Corporation; The Technical Committee discussions were led by Chairman D. F. Quealy, Keasbey & Mattison Company; and, the Fiber Testing Committee meetings were led by Chairman C. R. Hutchcroft, Keasbey & Mattison Company.

The General meeting for the entire membership was held on September 9th and proved to be one of the most interesting and enlightening meetings ever held by the Institute. Many executive officers of the member companies of the Institute were in attendance and several spoke with optimism regarding the immediate and future prospects for our industry.

During the course of the meeting, the annual elections were held to select the members who would serve on the Board of Governors of the Institute, and also the officers who would serve the Institute during the next year. As a result of these elections, the following members were selected to serve on the Board of Governors: A. J. Scanlan, American Asbestos Textile Corporation; W. S. Hough, Johns-Manville Corporation; W. S. Deckman, Keasbey & Mattison Company; J. T. Griffis, H. K. Porter Company, Inc.; J. A. Bettes, Raybestos-Manhattan, Inc.; T. C. McCluskey, Tallman-McCluskey Fabrics Company; and, S. J. Peele, United States Rubber Company.

The following officers were elected to serve the Institute during the ensuing year: President—W. S. Hough; Vice President—T. C. McCluskey; Treasurer—A. E. Whitfield; and, Secretary and Assistant Treasurer—M. C. Shaw.

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At the conclusion of the meeting, retiring President J. T. Griffis, H. K. Porter Company, Inc., was honored for his endeavors and accomplishments during his two-year tenure of office and as evidence of appreciation he was presented with a mantle clock carrying an appropriate engraving expressing the sentiments of his friends and associates in the Institute.

DR. HUBERT R. SNOKE, Assistant Chief of the Building Technology Division and Chief of the Floor, Roof and Wall Coverings Section of the National Bureau of Standards retired from active service on July 31, 1960, after more than 40 years with the Bureau.

Dr. Snoke has made many contributions to building technology. His four survey reports of the weathering qualities and extent of use of roofing materials in the United States are recognized nationally and internationally as models of their kind. His leadership in the formulation of Federal Specifications and ASTM standards also is widely recognized and valued. His is presently Chairman of the ASTM Committee D-8 on Bituminous Materials for Roofing, Waterproofing, and Related Building or Industrial Uses.

GEORGE S. SMITH, Age 62, Vice President and Director of Engineering of Johns-Manville Corporation, died Monday morning, September 5, 1960, at the Harkness Pavillion, Columbia Presbyterian Medical Center, New York City.

Mr. Smith was born in LaGrange, Indiana, and was graduated from Purdue University in 1921 with a Bachelor of Science Degree in Mechanical Engineering.

He began his career with J-M in 1929 as a Plant Engineer. He held other executive engineering positions at various J-M plants prior to his appointment as Vice President and Director of Engineering at New York in August, 1954.

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PROFILE — WILLIAM H. HILL
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W. H. Hill

William H. Hill was born at Hopewell, New Jersey, on September 9, 1899. attended the Hopewell public schools through the tenth grade, and graduated from the Trenton Model School in 1917.

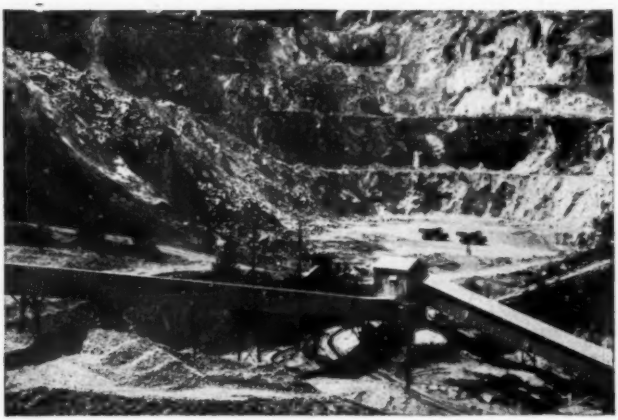
He attended Cornell University, where, after a short interruption in the Marine Corps, he received a degree in Mechanical Engineering in 1922.

After graduation he joined the Johns-Manville Corporation at their Manville Plant as an Engineer and worked there for one year. He then worked three years with Ingersoll-Rand as a student engineer in Easton, Pennsylvania, and Phillipsburg, New Jersey. He worked for Bound Brook Oil-less Bearing Company in 1926 and 1927 as a Production Engineer and later joined Fairchild-Caminez Engine Company in 1928. He rejoined Johns-Manville in 1929, working at their Manville Plant until 1934 in their Plant Engineering Department.

Returning to Trenton in 1934, he organized the Baldwin-Hill Company and served as its President for twenty-five years. In 1959 there was a merger between Baldwin-Hill Company and the Ehret Magnesia Manufacturing Company of Valley Forge, Pennsylvania, and the company became Baldwin-Ehret-Hill, Inc. The company manufactures and sells thermal insulation and acoustical products for building, and operates plants in Trenton, New Jersey; Valley Forge, Pennsylvania; Kalamazoo, Michigan; Huntington, Indiana and Temple, Texas.

Mr. Hill continued as its Chief Executive Officer until August 1st of this year when he retired from active management. He remains as a Director and is in charge of foreign activities of the company.

He is currently on the Greater Trenton Council, the Y.M.C.A. Board of Directors, a member of the Trenton Club, the Trenton Country Club, Engineers Club of Tren-



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ton, the Rotary Club, Cornell Club of New York, the Newcomen Society, and the Economic Club of New York.

Mr. Hill resides in Trenton and is married to the former May Thropp of Trenton. Their daughter Barbara is now Mrs. Norman Plummer and resides in Washington, D. C.

The INSULATION DISTRIBUTOR - CONTRACTORS NATIONAL ASSOCIATION, INC. has issued a follow-up invitation to all Insulation Contractors to attend the Fifth Annual Convention & Industry-Wide Meeting at the Americana Hotel in Bal Harbour, Florida—November 1 to 5, 1960.

All reports to date indicate that this will be the best attended convention of IDCNA.

ALEXANDER S. BASIL has recently been appointed as President of Rockbestos Wire and Cable Company, Division of Cerro de Pasco Corporation.

Prior to his appointment as President, Mr. Basil was Vice-President and General Manager, a position he held since October, 1959. He first joined Rockbestos in July, 1957, as Works Manager, following more than 30 years with the United State Rubber Company. His background includes experience in sales, development and manufacturing.

DONALD F. FRASER, 47, Vice President— Manufacturing of Garlock Inc., Palmyra, New York, died of a heart attack on Monday, September 12, 1960 at the Chesapeake and Ohio Hospital, Clifton Forge, Virginia.

Mr. Fraser joined Garlock on February 1, 1954, and successively served as acting chief engineer, works manager, production manager and on April 3, 1957, was elected Vice President—Manufacturing. His duties included supervision of all production facilities at Palmyra and five subsidiary plants.

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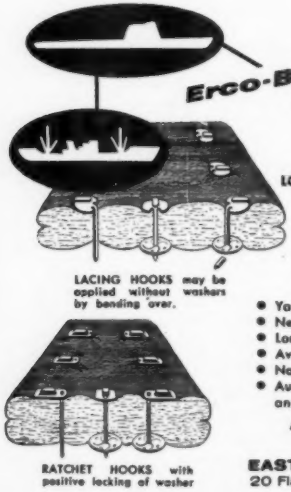
Chicago, Illinois, will be the site of the 12th annual PLANT MAINTENANCE & ENGINEERING SHOW, from January 23 through 26, 1961, at the International Amphitheatre. The conference will run for three days, January 23 through 25. Morning sessions of the conference will take place at the Amphitheatre and evening sessions at the Palmer House.

The 1961 exhibit area is expected to exceed six acres and about 375 companies are expected to participate as exhibitors. The theme for the 1961 show will be "The Maintenance Operation Meets the Needs of Increased Production".

Visitors who wish to receive advance rapid registration cards, hotel or conference information should write to the producer of the above events—Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York.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Motor Coaches	424
	501,223

In July 1959, a total of 663,444 motor vehicles were sold. In the seven months of 1960 the total was 5,013,604.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

The most extensive conference ever arranged on construction of new industrial buildings and modernization of old ones will take place in New York City, December 12 through 15, 1960. The conference will be a feature of the first INDUSTRIAL BUILDING EXPOSITION & CONGRESS at the New York Coliseum.

Both events are being produced by Clapp & Poliak, Inc., New York exposition management firm, and are under the sponsorship of a board composed of twenty-eight of the nation's foremost architects, builders, engineers and industrial executives.

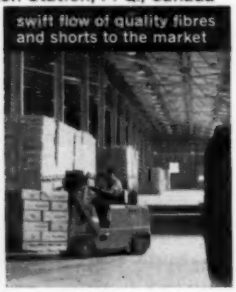
ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

This is Carey-Canadian Asbestos

from mine, to mill, to market

Here is your dependable source for the highest quality asbestos, consistently uniform from shipment to shipment.

Complete information on Carey-Canadian Asbestos can be obtained by writing:
Carey-Canadian Mines Ltd., P. O. Box 95, Cincinnati, Ohio or
Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada



CANADA'S ASBESTOS MINING INDUSTRY—1959

During 1959 the producers of asbestos in Canada shipped 1,050,429 short tons of crude and milled fibres valued at $107,433,344. Comparative figures for the preceding year were 925,331 tons valued at $92,276,748. The value of containers which was $3,534,945 in 1959 and $2,971,681 in 1958 has been excluded from the aforementioned data. The quantity increased 13.5% and the total value was up 16.4%.

The industry employed 6,653 persons at the mines and mills. Salaries and wages amounted to $31,448,638. Fuel and electricity cost $5,951,664, included in this figure was 400,427,378 kwh. of electricity valued at $3,176,337. Process supplies and containers cost $13,729,736.

THE FLINTKOTE COMPANY stockholders, at a special meeting held in Boston, Massachusetts, August 23, 1960, approved the proposed merger of *The Diamond Portland Cement Company* of Middle Branch, Ohio, into Flintkote. The action also paved the way for Flintkote to acquire *The M. J. Grove Lime Company* of Frederick County, Maryland. Consummation of both the merger and the acquisition is expected to be completed by about September 1, 1960.

NATIONAL GYPSUM COMPANY acquired the *Allentown Portland Cement Company* of Allentown, Pennsylvania, on September 15th, 1960. This acquisition is considered by National Gypsum as one of the biggest expansion moves in its history and involves an exchange of Allentown stock for National Gypsum stock now valued at about $31,000,000.

By the move, National adds three plants to its 60-plant mining and manufacturing network, boosts its annual cement-making capacity to 16.5 million barrels and expands its cement market to cover one-third of the nation.

100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ¼" to 2". Ask for Bulletin 101 and samples.

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NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building · Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East · Toronto, Ont. · Canada

CAPE

Subsidiaries of The Cape Asbestos Co. Ltd., London

BUILDING

Sharp gains in non-residential building and heavy engineering sent total construction contracts in August 7% above a year ago, marking the first time this year that construction contracts exceeded the comparable 1959 level, F. W. Dodge Corporation reported. August contracts for future construction in the United States totalled $3,295,217,000.

After adjustment for normal seasonal factors, the Dodge Index of construction contracts dipped slightly to 276 in August (1947-49=100) but remained above the record 1959 yearly average of 265 for the third consecutive month. The index in July stood at 285 and in June at 272.

Contracts for non-residential buildings in August rose 22% over the corresponding 1959 level, with nearly every major building type scoring impressive gains. Commercial building contracts were at an all-time high.

Heavy engineering contracts in August were up 20% over a year ago with sharp increases reported for highways and utility contracts.

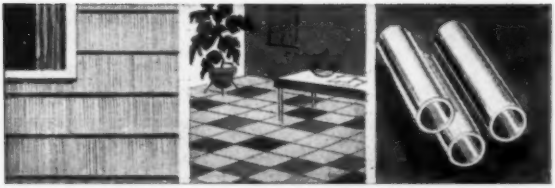
Dodge economists pointed out, however, that in both the non-residential and heavy engineering categories, the August 1960 gains reflected, to some extent, a relatively weak year-earlier performance.

Contracts for residential buildings in August were still below their high 1959 level but showed definite improvement from earlier this year. Although apartment building contracts actually rose above August 1959, they were more than offset by a decline in the much larger single-family house category.

A summary of the latest figures follows: non-residential building $1,177,184,000, up 22%; residential building $1,432,682,000, down 8%; and, heavy engineering $685,351,000, up 20%—total construction $3,295,217,000, up 7%.

Cumulative totals for the first eight months of 1960 with percentage changes from the corresponding period of last year, were: non-residential building $8,103,663,000, up 3%; residential building $10,347,310,000, down 15%; and, heavy engineering $5,948,228,000, up 6%—total construction $24,399,201,000, down 5%.

High grade asbestos fibers produced to your needs



Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics – name your product–Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

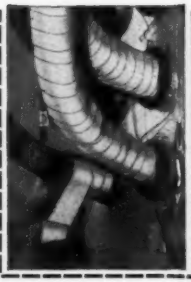
Flintkote Mines, Ltd.

(Subsidiary of the Flintkote Company) Thetford Mines, P.Q., Canada · New York Office: 30 Rockefeller Plaza, New York 20, N.Y.

FLINTKOTE®

· Toronto Office: 30th Street, Longbranch, Toronto, Ont., Canada · London Office: Adam House, 1 Fitzroy Square, London W-1, England

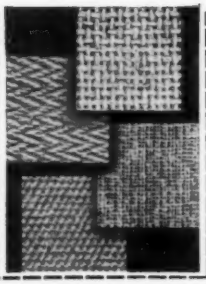
J-M Asbestos Tubing selected asbestos yarn braided into flexible, fireproof, chemical-resistant sleeving. Inside diameters 1/64"-2½". Plain or wire-inserted.



An important "plus" in J-M Asbestos FIBRES or TEXTILES...

Imagine—asbestos fibres some 1500 times finer than a human hair . . . controlled to meet strict grading requirements and over 20 textural classifications!

J-M No. 55 Tape silicone-impregnated asbestos, cuts costs of fireproofing electrical cable . . . repels water . . . resists oil, fungus, mold, rot . . . and is non-sagging.



J-M Asbestos Cloth uniform textures from *light-proof* to *open weave*. Exceptional resistance to heat, flame, chemicals. In all standard grades.

QUALITY

is carefully controlled at Johns-Manville

Some of the most comprehensive quality standards ever devised by industry assure that all 60 or more grades of Johns-Manville crude and milled asbestos—and the asbestos textiles made from them—are *exactly* as defined.

Day in and day out, in every step of production, continuous testing is run to measure and control a score of properties. Wet and dry volumes, adsorption levels, settling rates, grit removal, density and degree of fiberization —nothing escapes the eye of J-M Quality Control.

This unrelenting attention to product detail explains the high acceptance of Johns-Manville in asbestos fibres today. It also helps explain how asbestos textiles and products fabricated from these raw materials can meet the highest standards.

For FIBRE literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

For TEXTILE literature write Asbestos Textiles Department, Box 14, New York 16, N. Y.

JOHNS-MANVILLE JM PRODUCTS

MARKET CONDITIONS

GENERAL BUSINESS.

The hoped for fall upturn in general business has not yet made any substantial headway. Industrial production has held steady at best, while personal income has showed a slight increase. Steel production has increased only slightly and "Iron Age" now looks for no substantial increase in October. Among encouraging news is the report of good automobile sales in early September and a pickup in volume of applications for new home financing. All in all while business is certainly not booming it is felt that any recessive tendencies will not result in a serious reaction in view of the basic underlying strength of our economy.

ASBESTOS—RAW MATERIAL.

August 1960 asbestos fibre shipments for the industry at 97,180 tons were 16,610 tons or approximately 21% higher than the same period last year. Year to date shipments are running 60,900 tons or approximately 10% ahead of 1959. This trend is expected to continue for the balance of the year.

Export fibre shipments continue at a high level and the usual increased activity is expected for the next three months prior to the close of navigation.

All fibre grades are currently in ample supply.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market situation continues highly competitive and is expected to remain so for the balance of the year. Manufacturing capacity exceeds demand on most items.

Asbestos Brake Lining. Both equipment and resale markets are slightly off (about 3% to 5% range). The O.E.M. and replacement situation should pick up due to new models coming on the market and the expected fall upturn in general business.

asbestos cement department

10, VIA SANTA TERESA
TURIN, ITALY

Manufacturers of all types of Fully Automatic

asbestos cement machinery

Daily output guaranteed according to the International Standard Specification:

150 ton high pressure pipes
300 ton flat and corrugated sheets

Asbestos Paper. Orders for this product have increased slightly although prices are still very competitive. It is anticipated that there will be a slight improvement during the latter part of 1960. Orders for *Asbestos Millboard* have increased somewhat with prices still very competitive. The outlook for the rest of the year is that there will be a slight improvement. The present market situation for *Asbestos Saturated Paper* is fair and is levelling off, with only seasonal downturn. Business is expected to continue at the present level for the remainder of this year.

Asbestos-Cement Products. Products used for residential construction have picked up seasonally, but are below the levels anticipated due to the reduced level of housing construction. Products used in commercial and industrial construction are moving at satisfactory levels at this time. The outlook for the rest of the year is a continuation of present conditions subject to normal seasonal variations.

High Pressure Insulation. Orders for this material are coming in at a rate equal to last month. Prices are competitive at the manufacturer's level as well as the competitor's level for all projects and a slight improvement is expected for the last three months of 1960.

Low Pressure Insulation. Orders for Low Pressure materials are becoming fewer and fewer with little hope of recapturing this market. The overall volume for the balance of 1960 will be lower than last year.

Shingles—Roofing & Siding. Asbestos siding sales are slow and it is estimated that sales for the balance of the year will be 5% to 10% below last year.

Asbestos Pipes. The market situation is about as expected in view of the reduced level of housing starts and is virtually unchanged from the past few months. The outlook would indicate a gradually reduced level of business due to seasonal variations.

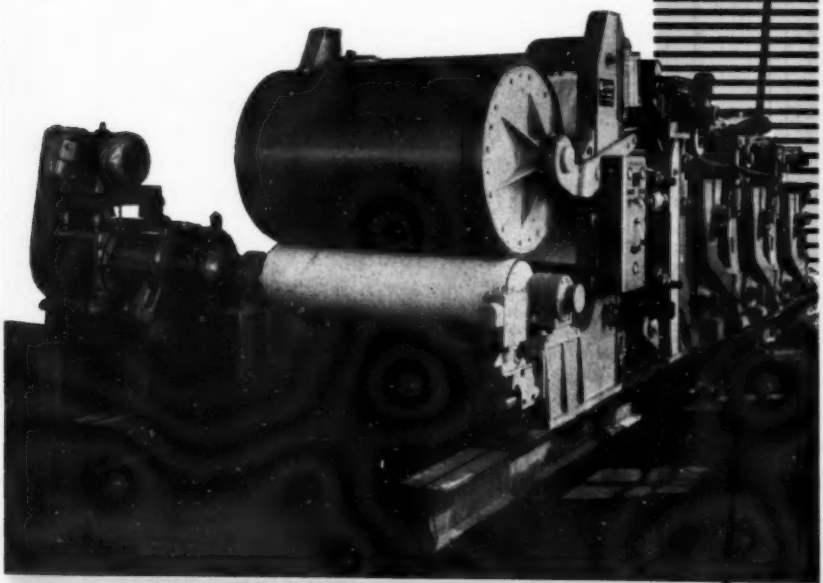
The above comments have been made by various informed executives in the Industry. All comments are welcome.

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cutt-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.



J.M.VOITH A.G.

St. Poelten – Austria

P. O. B. 168 / Tel. 2501 / Teletype 01510

SM 746 e

THOMAS A. MARSHALL, JR. has been elected Executive Secretary of the *American Society for Testing Materials* by its Board of Directors, effective October 15, 1960, it has been announced by Dr. A. Allan Bates, President of ASTM. Mr. Marshall is currently Senior Assistant Secretary of the American Society of Mechanical Engineers.

NATIONAL SAFETY COUNCIL has announced that the 1960 edition of its statistical yearbook, "*Accident Facts*", is now available. This publication contains thousands of facts and figures on all kinds of accidents—accident rates by major industry groups, and facts on accident trends and off-the-job accidents. This 96-page yearbook provides ideas and facts for making speeches, writing articles and planning safety campaigns.

Further information on "Accident Facts", and quantity prices, may be obtained from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.

SURVEYER, NENNIGER & CHÊNEVERT

Complete Consulting Engineering Services for the Asbestos Industry

One of our Completed Projects: - Mill No. 5 for Johns-Manville at Asbestos, Que., Canada

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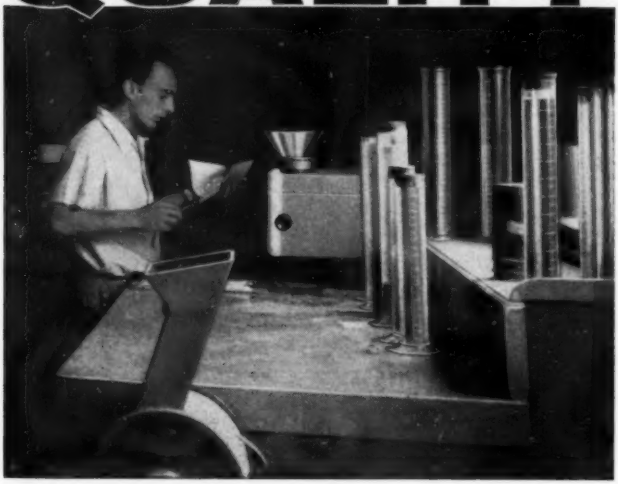
QUALITY



Our mill staff and laboratory people are constantly busy maintaining the strict quality control we know you expect. They're familiar with your manufacturing needs because we also make a wide range of products from our own fibres. They'll help you get **Gold Bond® asbestos fibres** especially processed to suit your particular needs.

Get the double benefit of our double experience. Write National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada (Subsidiary of National Gypsum Company).

a step ahead of tomorrow

Gold Bond
INDUSTRIAL PRODUCTS

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,240 lbs.

Production for July 1960	11,456.24
Valued at	£661,752.00
Production for July 1959	10,108.94
Valued at	£603,130.00

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for July 1960 (Quebec)	87,447
Other Provinces	5,082
	92,529

¶ Total production for July 1959 was 94,898 tons.

UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs.

	1st Quarter (January, February & March 1960)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	17,550	70	£ 2,755	12,223	£ 576,934
Chrysotile	6,872	816	19,768	6,035	312,300
Cape Blue	15,303	340	22,831	16,938	1,231,056
Transvaal Blue	2,653	..	..	2,379	163,525
Tremolite	..	30	627	..	..
	42,378	1,256	£45,981	37,575	£2,283,815

JAPAN produced 14,424 metric tons of asbestos products in the first half of 1960, or an increase of 29% on the same period of 1959, according to the Japanese Asbestos Association.

felt facts

DURASORB FELTS for . . .

- FINISH
- DRAINAGE
- STABILITY
- UNIFORMITY
- LONG LIFE

For PERFORMANCE generally . . .

Albany DURASORB Felts

Ask your Albany Felt Sales Engineer for a report on the highlights of the Superintendents' round table meeting on asbestos and cement operation. You'll find it tremendously interesting and informative.

AF

ALBANY FELT COMPANY
ALBANY, N. Y.

Talk it over with your Albany Felt Sales Engineer

CYPRUS

(From Inspector of Mines)

Tons 2,000 lbs.

	2nd Quarter (Ending June 30, 1960)		
	April	May	June
Rock Mined	68,842	253,039	314,297
Rock Treated	14,725	71,674	90,862
Fibre Produced	..	1,686	2,678
Fibre Exported ...	717	1,033	3,172

CYPRUS ASBESTOS MINES LIMITED

The use of rippers and heavy duty bulldozers for quarrying has practically eliminated the need for recourse to explosives.

During 1959, 1,441,504 tons of rock were quarried compared with 1,409,133 tons in 1958. 495,209 tons of raw material were treated (by the 9 mills in operation) as compared with 510,928 tons in the previous year. Production amounted to 7,450 tons of long grade and 5,428 tons of short grade fibres compared with 8,995 tons and 5,772 tons respectively in 1958.

Exports of fibres amounted to 14,412 tons valued at £856,942 compared with 13,118 tons valued at £789,617 during the previous year, the main importers being the United Kingdom, Austria, Denmark, Republic of Ireland, Sweden and Thailand.

Expenditure on plant and new buildings amounted to £237,967 of which new machinery plant and equipment amounted to £226,803. The average labor force employed daily was: 201 men (quarries); 284 men (other operations); and, 65 women, making a total of an average labor force of 550 which showed a further reduction, the figures for 1958 being 780.

For several years an asbestos-cement sheeting factory had been operating at Amiandos adjacent to the mine, but during 1958 the construction of a new asbestos sheeting factory, on the site of the Cyprus Cement Company Limited, near Limassol, was completed and the asbestos is now taken to this new factory instead of the more costly procedure of taking cement up, to the asbestos area. 184 tons of asbestos were utilized in the manufacture of asbestos-cement goods compared with 183 tons in 1958. The main items manufactured included 47 tons of flat sheets, 1,910 tons of corrugated sheets and 74 tons of moulded goods. There was a further decline in the local demand for these products during the year and sales realized £50,919 compared with £52,994 in 1958.

URAL ASBESTOS

Product of the U.S.S.R.

High quality of URAL Chrysotile ASBESTOS proved by more than a century of experience in industrial application.

With its outstanding combination of properties URAL ASBESTOS can be successfully used for the manufacture of a great variety of materials and products.

* * *

Supplied in grades from 3 to 7.

* * *

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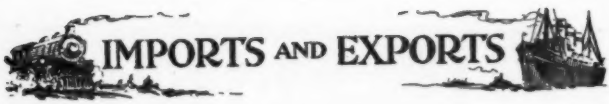


Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

		May 1960 Tons (2,240 lbs.)
From:	Canada	45,280
	Union of South Africa	2,404
	Australia	289
	Rhodesia (Ny)	286
	Other Countries	26
		48,285
	Valued at:	$5,038,239

By Grades:

Crude,	No. 1,	Chrysotile, Rhodesia (Ny)	22
Crude,	No. 2,	Chrysotile	8
Crude,	Other,	Chrysotile, Canada	72
Crude,	Other,	Chrysotile, U. of S. Africa	127
Crude,	Blue,	Australia	289
Crude,	Blue,	Union of South Africa	509
Crude,	Blue,	Rhodesia (Ny)	147
Crude,	Amosite,	Union of South Africa	1,768
Crude,	Amosite,	Rhodesia (Ny)	117
Textile Fiber,		Chrysotile, Canada	1,377
Shingle Fiber,		Chrysotile, Canada	6,914
Shingle Fiber,		Chrysotile, Other Ctys	18
Paper Fiber,		Chrysotile, Canada	2,814
Other Fibers,		Chrysotile, Canada	34,103
			48,285

Manufactured Asbestos Goods:

	May 1960 Quantity lbs.)	Value
Asbestos Yarn	32,641	$ 18,656
Asbestos Packing, United Kingdom	39,110	12,103
Asbestos Shingles (Impreg)		
Belgium	291,263	47,630
Other Countries	60,760	3,949
Asbestos-Cement Pipe A Fittings		
(Not Impreg), Mexico	1,279,473	86,830
Belgium	2,283,996	182,920
Italy	2,188,603	95,724
Other Countries	202,821	9,697

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

Asbestos-Cement Mfgs. Other (Not Impreg)	118,262	5,313
Asbestos Manufactures—Others	..	4,789
	6,496,929	$467,611

IMPORTS OF ASBESTOS BY UNITED KIGNDOM

Raw Materials

Tons 2,240 lbs.

	July 1960
From: Union of South Africa	2,940
Basutoland, Bechuanaland & Swaziland	1,349
Rhodesia & Nyasaland	4,084
Canada	7,529
Other Commonwealth Countries &Irish Republic	537
Foreign Countries	288
	16,727

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	June 1960 Tons (2,240 lbs.)	Value
To: Europe	222	$ 31,409
South America	78	7,260
Canada	56	8,066
Central America & Mexico	46	7,768
United Kingdom	40	3,760
Other Countries	12	1,528
	454	$ 59,791

Manufactured Asbestos Goods:

	June 1960 Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	675,538	$ 148,844
Asbestos Textiles & Yarn .....Lbs.	87,899	57,663
Asbestos Packing .....Lbs.	185,764	181,562
Asbestos Clutch Facing .....No.	133,178	90,882
Asbestos Bk Lng (Mld & S.Mld) Lin. Ft.	88,192	59,702
Asbestos Brake Lining, Other .....Lbs.	338,420	280,622
Asbestos Construction Material ...Lbs.	2,231,287	222,586
Asbestos Manufactures — Others	..	69,012
		$1,110,873

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

Exports From Canada

(Published by Dominion Bureau of Statistics)

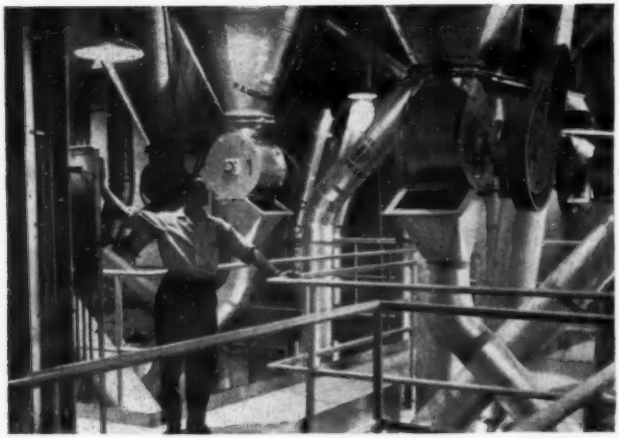
Unmanufactured Asbestos:

	June 1960 Tons (2,000 lbs.)	Value
Crude		
United States	5	$ 4,080
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	8	5,903
Other Countries	7	8,276
	20	$ 18,259
Milled		
United States	14,509	$ 2,930,767
United Kingdom	3,854	789,449
South America	3,352	591,342
Central America & Mexico	834	146,372
European Countries	17,533	3,148,909
Other Countries	9,006	1,357,525
	49,088	$ 8,964,364
Shorts		
United States	39,153	$ 2,051,934
United Kingdom	3,432	178,107
South America	889	56,219
Central America & Mexico	361	26,477
European Countries	6,527	375,312
Other Countries	4,865	406,454
	55,227	$ 3,094,503
Grand Total— Unmanufactured Asbestos:	104,335	$12,077,126
Manufactured Asbestos Goods:		
Brake Lining		$ 25,940
Packing		..
Other Materias		26,805
		$ 52,745

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY



Established source, volume source, independent source of proven-quality chrysotile asbestos fibre

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

Overseas Sales Agents:

ARGENTINA
(for Argentina, Uruguay)
Ladislao Kohn, Buenos Aires

AUSTRALIA
Mount Isa Mines Ltd., Sydney

BRAZIL
"Brasimel" Comercio e Industria S. A.,
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CHILE
Agencias Kapel Ltda., Santiago

COLOMBIA
Holanda Colombia, S. A.,
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JAPAN
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SWEDEN
Aktiebolaget
Ingeniorsfirman Titan,
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Harry P. Hansell, Vice President & General Manager, Dutton Asbestos & Supply Co., San Francisco, Calif., October 16.

David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.

Wm. F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17

Walter A. RuKeyser, Consulting Engineer, New York City, October 19.

E. J. Buczkowski, Vice President—Production, Keasbey & Mattison Company, Ambler, Pennsylvania, October 22.

Harry E. Humphreys, Chairman, United States Rubber Company, New York City, October 24.

H. C. Morton, Vice President—Friction Division, The Russell Mfg. Company, Middletown, Connecticut, October 28.

A. L. Wade, President, Asbestos Insulations, Reg'd., Montreal, Canada, October 28.

Harry A. Dutton, Jr., President & Treasurer, Dutton Asbestos & Supply Co., San Francisco, California, October 29.

Geo. L. Abbott, President & General Manager, Garlock Packing Company, Palmyra, New York, October 31.

A. M. Barranger, President, Acme Insulation Company, North Little Rock, Arkansas, November 2.

Antoinette Ozurovich, Secretary-Treasurer, Atlantic Asbestos Corporation, New York City, November 3.

Ernest S. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, November 3.

Kozaburo Nozawa, President, Nozawa Asbestos Industrial Company Limited, Kobe, Japan, November 4.

Charles B. Purcell, President, Western Asbestos Company, San Francisco, California, November 4.

Howard W. Allen, Vice President, Johns-Manville Corporation, New York City, November 5.

William P. Barry, Assistant Secretary, Smith & Kanzler Corporation, Linden, New Jersey, November 5.

Dirk Salomons, Director, Asbestcementindustries—"Asbestona N.V., Amersfoort, Holland, November 5.

Charles W. Hanslip, General Manager, Standco Brake Lining Company, Los Angeles, California, November 8.

Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.

M. Nicolato, Vice President, Pacific Asbestos Cement Products Corp., San Bernardino, California, November 13.

G. A. Rentschler, Chairman-Executive Committee, The Philip Carey Mfg. Co., Cincinnati, Ohio, November 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

BOOK LIST

The Asbestos Factbook, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy

Tests for Cotton Content. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each

Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks $1.00 per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

THE PHILIP CAREY MANUFACTURING COMPANY

Six-Month Report

Sales of The Philip Carey Manufacturing Company and subsidiaries for the first six months of 1960 amounted to $31,639,696, compared with $35,118,624 for the same months of 1959. Net earnings for the first half of 1960 were $1,071,436, compared with $1,732,845 for the same 1959 period.

Sales for the second quarter of this year were $18,336,970, compared with $19,708,487 a year ago. Earnings per share for the second quarter were $.83 in 1960 against $1.16 for 1959.

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

CURRENT RANGE OF PRICE

As of October 10, 1960

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	$1,475.00	to	$1,800.00
No. 2 Crude (soft)	830.00	to	1,050.00
Group-3 (Filtering & Spinning)	350.00	to	450.00
Group-4 (Plastic & Filtration)	190.00	to	250.00
Group-5 (Plastic & Moulding)	125.00	to	177.00
Group-7 (Refuse & Shorts)	60.00	to	100.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00	to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00	to	875.00
Group No. 3 (Spinning Fibre)	350.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	$ 353.00	to	$ 440.00
Group No. 4 (Shingle Fibre)	181.00	to	218.00
Group No. 5 (Paper Fibre)	120.00	to	142.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	41.00	to	75.00

The Clute Corporation has recently issued its Annual Report for the fiscal year ended June 30, 1960, including a report of the operations of the Asbestos Bonding Corporation Division.

J. W. (Toby) Reid, Sales Representative of the Textile Division of UNITED STATES RUBBER COMPANY, has been assigned to the southern district sales office of the division located at Chattanooga, Tennessee. In his new position, Mr. Reid will work in Georgia, Alabama and Tennessee, serving the tufting and chenille manufacturers of the three states.

NEWARK HAIR FELT COMPANY
LOW TEMPERATURE INSULATION
1000 Maple Avenue
LANSDALE, PENNA

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		September 1960		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$3.50	$4.00	$3.80
American Brake Shoe	np	35½	41	38
Armstrong Cork (Com)	1	43¼	46	44⅛
Armstrong Cork (Pfd)	np	79½	83½	79½
Asbestos Corporation	np	25	26½	25½
Philip Carey	10	23	25⅝	24
Cassiar Asbestos Corp.	np	12	13	12½
Celotex (Com)	1	20½	23⅜	20¾
Celotex (Pfd)	20	17¾	18⅜	17⅞
Certain-Teed	1	11⅛	12⅛	11½
Fibreboard	np	27⅛	31¼	29⅛
Flintkote (Com)	5	30⅜	34⅞	31
Flintkote (Pfd)	np	81	84	82½
Johns-Manville	5	49¼	54¼	51⅜
National Gypsum (Com)	1	49⅝	54½	52⅞
National Gypsum (Pfd)	np	91⅜	97½	96½
Porter, H. K.	100	89¾	91¼	90¾
Raybestos-Manhattan	np	57	64½	57½
Ruberoid	1	32⅛	34¾	32½
Unarco	5	7¾	10½	8¼
United Asbestos	1	$3.70	$4.30	$3.70
U. S. Gypsum (Com)	4	89½	97¾	91¾
U. S. Gypsum (Pfd)	100	155	159	156½
U. S. Rubber (Com)	5	41¾	50⅝	43⅝
U. S. Rubber (Pfd)	100	154¾	156	155¾

Kelley Asbestos Products Company Board of Directors elected the following officers at a meeting on August 23rd, 1960: President—David E. Kelley; Vice President—Manley Alsaker; Vice President—Geo. O. Hart, Jr.; Secretary—Chas. M. Blackmar; and, Treasurer—D. E. Kelley.

Drastic reduction of heat loss with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

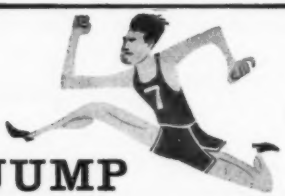
Allen D. Helveston, Jr. has been promoted to the position of buyer in the Purchasing Department of KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania. In his new assignment, Mr. Helveston will purchase maintenance and repair items and office supplies.

Jack A. Henderson has been appointed Supervisor of the Research and Development Section, Engineering Department, of GARLOCK INC., according to an announcement by Donald F. Fraser, Vice President-Manufacturing.

Garlock is the world's largest producer of seals, packings and related products.

Joseph G. Woppman has been appointed to the newly-created post of Plant Manager at the Palmyra, New York, facilities of GARLOCK INC., Company President A. J. McMullen has announced.

Borden R. Bond has been named Manager of Industrial Engineering Department, Manufacturing Division, GARLOCK INC., succeeding Mr. Woppman.



WE'LL JUMP

TO MEET YOUR SPECIAL NEEDS IN ASBESTOS TEXTILES . . .

Just let "U.S." know your asbestos textile requirements. We'll break our necks to develop the special yarn, fabric or tape that does the job for you. Spinning and weaving closely controlled for maximum uniformity at our modern Hogansville, Ga. plant.

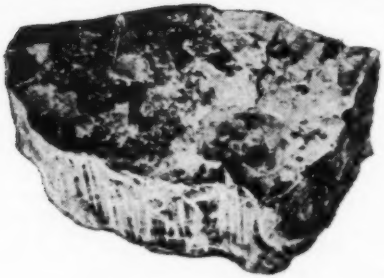
Write Asbestos Dept., Textile Division

US RUBBER

United States Rubber

Rockefeller Center, New York 20, N.Y.

Built on a rock



Crude Asbestos is the rock on which B.B.A. is built. We use it to make everything for which asbestos is best, from yarns and cloths to all types of jointings and packings —and the world famous MINTEX friction materials and MINTEX Industrial Plastics.

Our factory leads in production; our Research Laboratories keep us at the head of development: Asbestos is our subject.

British Belting & Asbestos Ltd

CLECKHEATON · YORKSHIRE · ENGLAND

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Heat Resistant Composition, No. 2,937,101. Granted on May 17, 1960 to R. A. Nelson and S. Zirinsky (assigned to General Electric Company, a corporation of New York). A chemically inert, heat resistant composition having relatively great thermal shock resistance, and of particular utility as an outer fabric for high speed aircraft, consists of fused magnesium oxide, phosphoric acid, and glass and/or asbestos fibre. Optionally, graphite or a high-melting-point refractory metal nitride or carbide may be added.

Pipe Making Machines, No. 2,937,701. Granted on May 24, 1960 to L. Toniolo and G. Garbin. In an improved machine for manufacturing asbestos-cement pipe, means are provided for introducing fresh bare mandrels into the machine and withdrawing mandrels having pipes wound thereon without the necessity of stopping the machine.

Flame-Resistant, High-Heat Insulating Composition, No. 2,938,937. Granted on May 31, 1960 to A.M. Shenk (assigned to Ideal Chemical Products, Inc., Culver City, California). An insulating coating compound for spraying or troweling onto metal parts of rockets or missiles comprises about 5 parts asbestos fibre, 1 part of exfoliated vermiculite, a fire-resistant hydrocarbon-rubber vehicle, a plasticizer, a pigment, and an aromatic solvent.

Porous Ceramic Plant Husbandry Equipment and Methods of Production Thereof, No. 2,939,247. Granted on June 7, 1960, to H. J. Palumbo (assigned to Johns-Manville Corporation, New York City). Method of making fungi- and algae-resistant porous flower pots, bulb dishes, planters, seed boxes, and other greenhouse equipment from either clay or other ceramic mixes, or mixes of cement with asbestos fibre.

Coating Composition and Coated Structures, No. 2,939,794. Granted on June 7, 1960, to C. E. Wilkinson (assigned to Texaco, Inc., a corporation of Delaware). An asphaltic coating composition for protecting utility poles, railroad ties, and other exposed wood articles from fire and weather comprises 30-55% asphalt, 15-30% a volatilizable diluent, 5-15% fine asbestos fibre, 5-10% ground mica, 5-15% exfoliated vermiculite, and 2-8% of a fine alkali metal borate. This compound is applied by spraying, brushing, or troweling.

Cut shipboard insulation costs with R/M lagging cloths

Raybestos-Manhattan manufactures *all* asbestos cloths indicated in the expanded Federal Specification SS-C-00466b (Navy–ships) dated Feb. 3, 1960, covering cloth, thread and tape–asbestos.

Our widely used SRC finish on the shipboard lagging cloths covered by this specification improves appearance, reduces paint absorption (only one coat needed), prevents raveling, speeds installation aboard ship and in steam power plants.

Samples of any of these cloths are available upon written request. An R/M salesman will be glad to call on you with complete information.

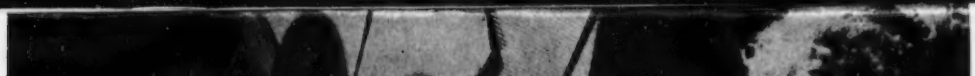
R M

ASBESTOS TEXTILE DIVISION
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.

SPECIALISTS IN ASBESTOS, RUBBER, SINTERED METAL, ENGINEERED PLASTICS

ASBESTOS — TEXTILES

H. K. PORTER COMPANY, INC.

THERMOID DIV., CHARLOTTE WORKS

CHARLOTTE 1, N. C.